

Facilities Development Division www.oshpd.ca.gov/fdd 400 R Street. Suite 200, Sacramento, California 95811-6213 Phone (916) 440-8300

Fax (916) 654-2973



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

	For Office Use Only	
	APPLICATION NO.	Check whether application is: NEW X RENEWAL
	OSP - 0045-10	
	JOHNSON CONTROLS, INC	FRANCIS E. JEHRIO
1.0	Manufacturer 631 S. RICHLAND AVE, YORK, PA 17403	Manufacturer's Technical Representative
	TORK, FA 17400	Mailing Address
	717-771-6854	Francis.e.jehrio@jci.com E-mail Address
	Telephone WATER COOLED CHILLERS	
2.0	Product Name	Product Type
	Chillers, See	attachments for approved components.
	Product model No (List a	all unique product identification numbers and/or serial numbers)
	CHILLERS WITH WELDED STEEL E	OUNTED (may include thin neoprene pads) WATER COOLED VAPORATOR AND CONDENSER VESSEL CONSTRUCTION. SSOR, MOTOR, VSD, AND CONTROLLERS.
3.0	MAKEITRIGHT, INC.	JOSEPH L. LA BRIE, SE
3.0	Applicant Company Name	Contact Person
	55 E. HUNTINGTON DR, SUIT ARCADIA, CA., 91006	E 277,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Mailing Address
	626-445-0366	labrie@makeitright.net
	Telephone	E-mail Address
I her	eby agree to reimburse the Office s incurred by the department for r	e of Statewide Health Planning and Development for the actual review.
	1/ Jaco	05555455 07 0040
	Signature of Applicant	SEPTEMER 27, 2010 Date
	PRESIDENT / CEO	MAKEITRIGHT, INC
	Title	Company Name



Specify):	

0	Registered Design Professional Preparing the Report MAKEITRIGHT, INC.							
	IOSERHI I A RRIE SE	Company Name	S 3566					
-	JOSEPH L. LA BRIE, SE Contact Name		California License Number					
	55 E. HUNTINGTON #277, ARCADIA, CA	., 91006						
	626-445-0366	Mailing Address	labrie@makeitright.net					
	Telephone		E-mail Address					
0	alifornia Licensed Structural Engineer Rev	view and Acceptanc MAKEITRIGHT, INC.	e of the Report					
	JOSEPH L. LABRIE, SE	Company Name	S 3566					
<u> </u>	Contact Name 55 E. HUNTINGTON DRIVE, #277, ARCADIA, CA., 9	1006	California License Number					
-	626-445-0366	Mailing Address	labrie@makeitright.net					
	Telephone		E-mail Address					
A	nchorage Pre-Approval Anchorage is pre-approved under OPA-	,						
_	(Separate application for anchorage pre-approval is required)							
	(Separate application for anchorage pre	-approvar is required,	/					
\triangleright	Anchorage is not Pre-approved							
C	ertification Method							
_	Testing in accordance with:	☑ ICC-ES AC-156	Other (Please Specify)					
	Analysis		<u> </u>					
	Experience data							
	Combination of Testing, Analysis, and/o	r Experience Data (F	Please Specify):					
Т	esting Laboratory (if applicable)							
	UUT1: SEESL, University at Buffalo UUT2: UCSD: SRMD Test Facility		UUT1: Andre Filiatrault, Ph.D. UUT2: Gianmario Benzoni Ph.D.					
	Company Name UUT1: 212 Ketter Hall, North Campus, Buffalo, NY UUT2: 9500 Gilman Drive, La Jolla, Ca., 9209		Contact Name					
		Mailing Address						
		Mailing Address						
	UUT1: (716) 645-2114 X2434 UUT2: (858) 534-1432	70.	UUT1: Filiatrault@mceermail.buttalo.edu UUT2: benzoni@ucsd.edu					





Condition of Approval (if any): Approval is limited to compone	ents listed in		
Chris Tokas, SHFR Name & Title		Special Seisr	1.45 z/h = 1.0
Signature & Date	1		Approval Expiration Date
Va has	9/29/10		December 31, 201
OSHPD Approval (For Office Use Only)			
☐ Calculations ☐ Others (Plea	ase Specify:):		,,,
☐ Test Report (2 LAB REPORTS)☐ Drawings	×		facturer's Catalog
List of attachments supporting the special seismic certification	ication of equ	ipment or a	components:
Tank(s) designed in accordance with ASME BPVC, 2007:	Yes	\boxtimes	No
Overall dimensions and weight (or range thereof) =			
Equipment or Component fundamental period(s) =	Sec		
Height to Center of Gravity above base =			
I_p (Importance factor) =1.5			
C_d (Deflection amplification factor) =1.0			
Ω_0 (System overstrength factor) =1.0			
R (Response modification coefficient)=1.0			
S ₁ (Spectral response acceleration at 1 second perio	od) =		
S _{DS} (Spectral response acceleration at short period)	=		
Design Basis of Equipment or Components (V/W) =			
Equipment or Components @ grade designed in accordance	with ASCE 7-0	05 Chapter	15: Yes 🛛 N
Overall dimensions and weight (or range thereof) = S	SEE ATTACHE	D	
Building period limits (if any) = NONE			
Equipment or Component fundamental period(s) = SE	EE ATTACHED)	
z/h (Height factor ratio)=1.0			
I_p (Importance factor) = 1.5			
R _p (Equipment or component response modification to	factor) =2.5		
ap (In-structure equipment or component amplification	n factor) =2.5		
S _{DS} (Spectral response acceleration at short period)	=1.45g		
Design Basis of Equipment or Components $(F_p/W_p) = 2.61g$			
Design in accordance with ASCE 7-05 Chapter 13:	Yes	No	
Approval Parameters			







Product Line and Model Numbers:

MODEL	IONAGE	UUI	WEIGHT	MIDIH	HEIGHT	LENGIH	ALL MARKET	FUND. FREQ. (h	z)
Co (Silperson)	Car Maria	NUMBER	(IDS)	(rt-in)	(IT-IN)	(Tt-In)	frt to bck	side to side	vertical
YK FM FM P8	800 Ton	UUT-1	26,450	6'-11"	9'-4"	16'-0"	10.2	16.9	18.1
YK DS DS Q3	200 Ton	UUT-2	21,035	5'-6"	5'-10 1/2"	16'-0"	8	8.5	18.5







COMPONENT

MANUFACTURER: JOHNSON CONTROLS, INC

	your continues, me							
PRODUCT LINE	MODEL NUMBER	LARGEST	SMALLEST	INCLUDED WITH TEST	MOUNT CONFIGURATION			
COMPRESSORS	Q3		X	UUT-2	Mounted on Unit			
	Q4			*	Mounted on Unit			
	Q5			*	Mounted on Unit			
	Q6			*	Mounted on Unit			
	Q7			*	Mounted on Unit			
	P7			*	Mounted on Unit			
	P8	X		U⊍T-1	Mounted on Unit			
* Internalated								

^{*} Interpolated

COMPONENT

MANUFACTURER: JOHNSON CONTROLS, INC.

MICONDO CONTRACTOR AND THE STATE OF THE STAT	remiser continues, me						
PRODUCT LINE	MODEL NUMBER	LARGEST	SMALLEST	INCLUDED WITH TEST	MOUNT CONFIGURATION		
EVAPORATOR	Α			*	Base Mounted		
	В			*	Base Mounted		
	C			*	Base Mounted		
	D		X	UUT-2	Base Mounted		
	E			*	Base Mounted		
* Interpolated	F	×		UUT-1	Base Mounted		

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COMPONENT

MANUFACTURER: JOHNSON CONTROLS, INC

THE STATE OF THE S	JOHNSON CONTROLS, INC						
PRODUCT LINE	MODEL NUMBER	LARGEST	SMALLEST	INCLUDED WITH TEST	MOUNT CONFIGURATION		
CONDENSER	А			*	Base Mounted		
	В			*	Base Mounted		
	С			*	Base Mounted		
	D		X	UUT-2	Base Mounted		
	E			*	Base Mounted		
	F	X		UUT-1	Base Mounted		
* Interpolated							







COMPONENT

MANUFACTURER: JOHNSON CONTROLS, INC

INDIAN COLLECTION					NAME AND ADDRESS OF TAXABLE PARTY.	
PRODUCT LINE	MODEL NUMBER	LARGEST	SMALLEST	INCLUDED WITH TEST	MOUNT CONFIGURATION	
OIL SUMP	14"Diamet		X	UUT-2	Mounted on Unit	
	14"Diamet	×		UUT-1	Mounted on Unit	

COMPONENT

MANUFACTURER: SCHNEIDER ELECTRIC

TOTAL STREET, ST. LEWIS CO., LANSING, ST. LEWIS CO., L	MODEL	E. 1.30		INCLUDED	MOUNT
PRODUCT LINE	NUMBER	LARGEST	SMALLEST	WITH TEST	CONFIGURATION
CONTROLLER	OPTIVIEW		X	UUT-2	Mounted on Unit
	OPTIVIEW	· X		UUT-1	Mounted on Unit

COMPONENT

MANUFACTURER: SCHNEIDER ELECTRIC

448000000000000000000000000000000000000	MODEL	But Bar	1000	INCLUDED	MOUNT
PRODUCT LINE	NUMBER	LARGEST	SMALLEST	WITH TEST	CONFIGURATION
VSD			X	UUT-2	Mounted on Unit

COMPONENT

MANUFACTURER: SCHNEIDER ELECTRIC

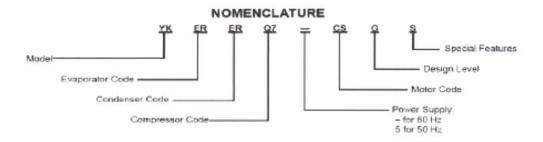
STATE OF VE	MODEL	FEET WITH		INCLUDED	MOUNT
PRODUCT LINE	NUMBER	LARGEST	SMALLEST	WITH TEST	CONFIGURATION
MOTOR			X	UUT-2	Mounted on Unit
		X		UUT-1	Mounted on Unit











PRODUCT CODE:

Johnson Controls, Inc., York Brand chiller products are inentified by a Product Code as shown below.

The Model Type is a "YK".

The 2-character Evaporator Code is next and its range is from AP to Z4.

The 2-character Condenser Code is next and its range is from AP to Z4.

The 2-character Compressor Code is next and ranges from Q3 to K7.

The first letter of the evaporator and condenser code stand for the shell dia ranging from 25-1/4" for the evaporator and 21-1/4" for the condenser to 62" for the evaporator and 56-5/8" for the condenser for an "A".

The second letter represents the tube pattern. Bundle sizes vary for the same shell dia. Thus, for the same shell dia., the tonnage varies with the number of tubes.

The single-stage centrifugal compressor increase in capacity from the "Q's to the K's and include the P's and H's.